



Doula Care and Maternal Health: An Evidence Review

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KEY POINTS

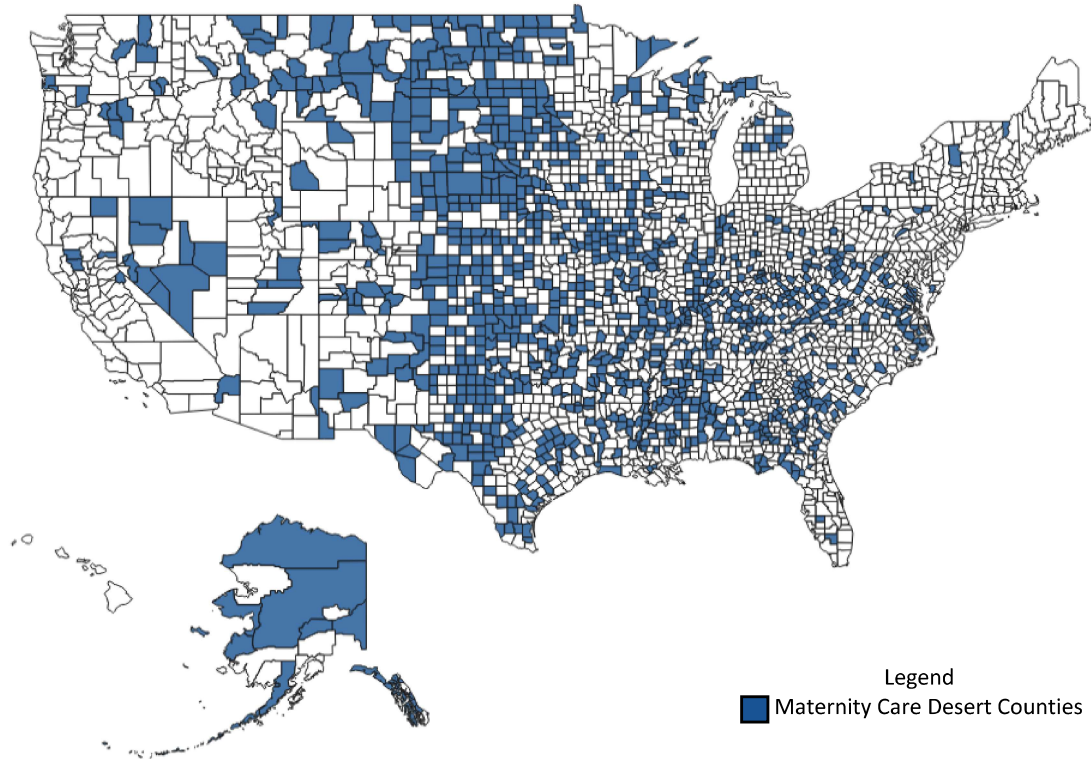
- Doulas provide emotional, physical, and informational support before, during, and after labor and birth.
- Research indicates that doulas positively impact several maternal and infant health outcomes and experiences.
- The doula workforce faces challenges regarding public and provider education and awareness, as well as in obtaining payment from health insurance for the services they provide.
- The federal government is supporting training opportunities to expand the doula workforce and is encouraging coverage of doula services in health care programs.
- Several states provide coverage for doula services in their state Medicaid programs.
- Expansion of doula care nationally, with a focus on Black and American Indian and Alaska Native women who experience worse maternal health outcomes, has the potential to reduce disparities in clinical outcomes and improve care experiences.

BACKGROUND

For the approximately 3.6 million women* who give birth in the U.S. each year,¹ birthing experiences vary substantially, particularly by race and ethnicity, and also by other characteristics such as geography. Black and American Indian and Alaska Native (AI/AN) women experience substantially higher rates of severe maternal morbidity and mortality than White women, irrespective of educational attainment.² Differences in outcomes can be attributed to a number of factors including inequities in housing, environmental conditions, economic opportunity, and access to health care. These factors are in significant part the result of inequitable policies due to discrimination – both structural and interpersonal.^{3,4} Research also indicates women in rural communities have a higher probability of severe maternal morbidity and mortality than women in urban areas.⁵ Access to maternity care can be a challenge in many rural areas, as over half of rural counties lack a hospital with obstetric care services.^{6,7} In addition, as of 2018, over 2.2 million women of childbearing age lived in one of 1,119 counties (36 percent of U.S. counties) classified as a maternity care desert⁸ – which are counties with no maternity care centers or obstetricians. Figure 1 highlights the wide variation in access to maternity care across the U.S., with the majority of maternity care deserts located in the Midwest and South.

* While this report generally refers to women, the content of this brief is inclusive of every person giving birth, irrespective of gender identity or demographic background.

Figure 1: Maternity Care Access by County in the U.S., 2020



Note: Information from March of Dimes. Nowhere to Go: Maternity Care Deserts Across the U.S. 2022. Report available at: <https://www.marchofdimes.org/research/maternity-care-deserts-report.aspx>. Data for U.S. counties in 2020 retrieved from www.marchofdimes.org/peristats.

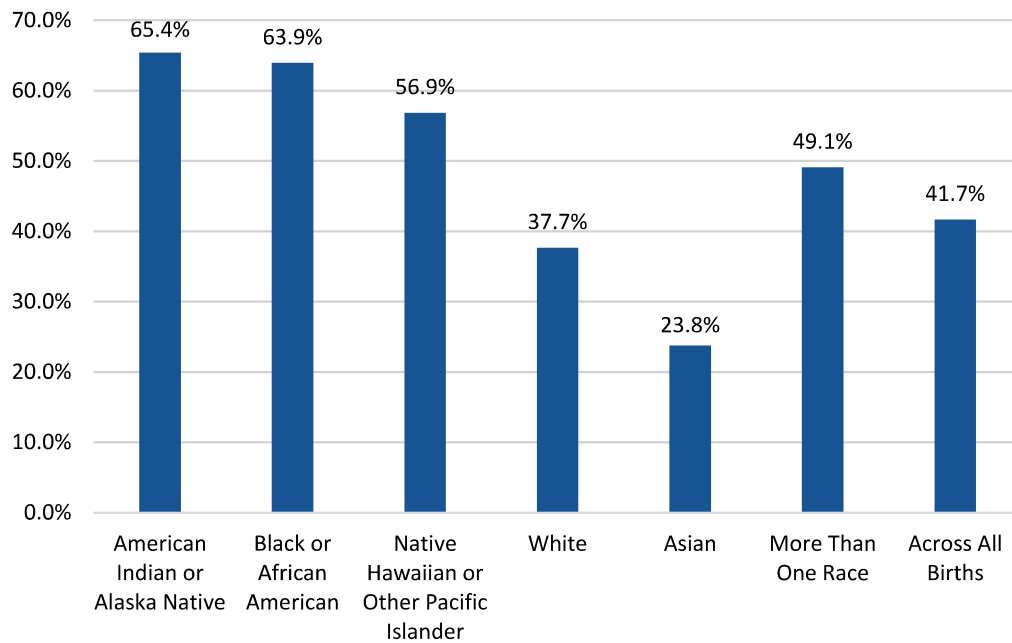
The Biden-Harris Administration has prioritized improving maternal health outcomes and the maternity care experience, especially in communities with unmet maternal health care and resource needs. Two of the Administration's efforts include the White House Blueprint for Addressing the Maternal Health Crisis and a request for \$470 million to address maternal health needs in the Fiscal Year 2023 President's Budget.⁹ Proposals in the President's 2023 Budget addressing maternal health include requiring twelve months of postpartum coverage in Medicaid; expanding maternal health initiatives in rural communities; implementing implicit bias training for health care providers; creating pregnancy medical home demonstration projects; addressing the highest rates of perinatal health disparities, including by supporting the perinatal health workforce; strengthening data collection and evaluation; and addressing behavioral health disorders.¹⁰ A key strategy to improve the birthing experience for all women is to grow, strengthen, and diversify the perinatal workforce. The perinatal workforce includes clinicians such as obstetricians, nurse midwives, and family physicians, as well as other professionals such as community health workers, health care navigators, and doulas.[†]

Medicaid covers over 60 percent of all U.S. births among Black and AI/AN individuals.

[†] The White House Blueprint for Addressing the Maternal Health Crisis includes explicit goals to improve the number and diversity of perinatal professionals through programs such as the National Health Service Corps, Primary Care Training and Enhancement—Community Prevention and Maternal Health Program, and Community Health Worker Training Program, as well as by encouraging insurance providers to improve reimbursement policies for maternity care services.

Doulas are nonclinical trained professionals who can provide emotional, physical, and informational support during pregnancy, delivery, and after childbirth. Access to doula services has been historically limited in the U.S., with greater utilization among higher-income individuals, since doula services are often not reimbursed by health coverage programs including most state Medicaid programs. Medicaid covers over 40 percent of all births across the U.S. and is an important source of coverage for populations experiencing poor maternal health outcomes (see Figure 2). For instance, Medicaid covers over 60 percent of all births among Black and AI/AN individuals. Though improving access to doula services would not singlehandedly address the ongoing need to improve access to clinical care services in some communities across the U.S., coverage for doula services is one option to improve the maternity care experience for patients and provide supports that can contribute to improved maternal health outcomes as described later in this report.

Figure 2: Percent of Births Paid by Medicaid by Mother's Race, 2020



Note: Data are from the CDC's Natality Records 2016-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at <http://wonder.cdc.gov/natality-expanded-current.html>

In this report, we explore the role of doulas in maternal health care, review the evidence on the effects of doula care on maternal health outcomes, and discuss challenges and policy opportunities for expanding doula care in the U.S., including recent developments in Medicaid and actions being taken as part of the White House Blueprint for Addressing the Maternal Health Crisis.¹¹

THE ROLE OF DOULAS IN MATERNAL HEALTH CARE

As nonclinical perinatal professionals, doulas can provide various types of support for women during pregnancy, childbirth, the postpartum period, and other related reproductive health experiences. Doulas can function as navigators and advocates for expecting parents as they engage with various clinical providers involved in their care, such as licensed midwives and obstetricians, and they can function as consistent points of contact and trusted sources of information in their local communities – which can be particularly valuable for populations that experience increased barriers to accessing clinical services. Many doulas have private practices, but some also practice in hospital- or community-based programs.¹² Whether participating as a member of a broader maternity care team or providing their services on an individual basis, in addition to providing general support and education on pregnancy, doulas may also serve as patient advocates by

communicating patient preferences, needs, and concerns to licensed midwives and obstetricians. They can use their experience and knowledge to explain complicated medical information. For example, doulas can support women during emergency cesarean deliveries by using their experience and knowledge to relay procedural information while also attending to the woman's emotional and other non-medical needs.

Some of the supports that a doula may provide include:

- Education and Emotional Support – Doulas can provide accessible information to women on topics such as risk factors and warning signs that may need to be addressed and healthy choices to optimize maternal and infant outcomes. They can also provide emotional support during stressful pregnancy and postpartum periods. For example, during childbirth, doulas can serve as patient advocates and work with the medical team to ensure patient preferences are incorporated into the care plan.
- Affirmation and Advocacy – Doulas can provide affirmation when women are experiencing uncertain and concerning symptoms that should be addressed and advocate on their behalf when attending clinical visits. Affirmation and advocacy may be particularly beneficial for populations experiencing disparities in maternity care.¹³
- Navigation – Doulas can help women navigate the health care and social service sectors. This assistance may be particularly helpful for women who have complex health conditions, are new to engaging with the health care system, or who need assistance with accessing community resources and services to help support their pregnancies and during the postpartum period.

Doulas practicing within their communities, such as community-based doulas,¹⁴ can often provide culturally appropriate support to women at higher risk of poor outcomes throughout pregnancy, delivery, and the postpartum period. Doulas are often trusted members of the community they serve and are well-suited to address issues related to discrimination and other drivers of disparities by bridging language and cultural gaps and serving as health navigators. Further, they often provide additional services tailored to the specific needs of the community including prenatal and postpartum home visits, which reduce travel and logistic issues for clients; breastfeeding education and consultation; and referral and navigation assistance for additional needs such as social services. This may be of particular importance for Black and AI/AN women, who have been historically marginalized in institutions both inside and outside of health care, and thus may face more barriers accessing services and experience far worse maternal health outcomes.^{15,16}

EVIDENCE ON DOULA CARE

Doula support during pregnancy and birth has been shown to be effective in improving the labor and delivery experience.¹⁷ By providing continuous support across the entire pregnancy, doulas can contribute to improved maternal and infant outcomes and experiences by reducing stress, anxiety, and pain, and by promoting self-efficacy and confidence.¹⁸ The Centers for Medicare & Medicaid Services (CMS) Expert Panel on Improving Maternal and Infant Health Outcomes in Medicaid and the Children's Health Insurance Program (CHIP) in 2013 and the Recommendations for Maternal Health and Infant Health Quality Improvement in Medicaid CHIP from 2020 included continuous doula support during labor as a strategy to improve maternal care management.^{19,20}

One meta-analysis of 26 randomized controlled trials from 17 countries between 1988 and 2015, involving more than 15,000 women in a wide range of settings, found continuous labor support provided by doulas to reduce rates of cesarean delivery, improve 5-minute Apgar scores,[‡] and improve women's ratings of the

[‡] Test rating a newborn's appearance, pulse, grimace, activity, and respiration on a scale of 0-2 following birth.

childbirth experience.²¹ Among U.S. women, one randomized controlled trial of middle- and upper-income women in labor showed that the continuous presence of a doula during labor compared to not having a doula significantly decreased the likelihood of cesarean delivery and reduced the need for epidural analgesia. All women (244 out of 244) who received doula support positively rated their experience with their doula.²²

An observational study of low-income women (41 percent of whom were Black) found that doula-assisted mothers were four times less likely to give birth to a baby with low birthweight, two times less likely to experience a birth complication involving themselves or their baby, and significantly more likely to initiate breastfeeding, though these results – unlike the ones cited above – were not randomized and may have been affected by which women utilized doula care.²³

Among Medicaid beneficiaries, research has shown that women whose labor and delivery were supported by doula care had lower cesarean and preterm birth rates and improved rates of breastfeeding initiation.^{24,25} One study found that the high costs associated with cesarean versus vaginal deliveries can make coverage reimbursement for doula services cost-effective for state Medicaid programs.²⁶ Preventing birth complications for mother or newborn may also be a source of savings.²⁷

These studies indicate that doula care can benefit women through pregnancy and during delivery and that infants can benefit as well from high rates of breastfeeding initiation in the postpartum period. A randomized control trial on doula home visit services found women who received doula services were more likely than women enrolled in case management to attend classes ahead of their delivery and practice infant safety measures, including back-sleeping for infants and appropriate car seat use.²⁸ Future research can assess patient preferences for, access to, and utilization of doula services; the impact of doula services on health outcomes such as maternal and neonatal morbidity and mortality when doula services are covered by insurance; and the effect doula care has on overall maternity care costs.

CHALLENGES AND OPPORTUNITIES FOR THE PROVISION OF DOULA CARE

Despite the benefits doulas can provide, a survey found only 6 percent of U.S. births involved doula services.²⁹ Low utilization of doula services may be attributable to several factors described in this section, including high out-of-pocket costs, limited numbers of practicing doulas, variation in training requirements, and a lack of awareness of the profession. Doula care in the U.S. is currently largely limited to middle- and high-income women who can afford to pay for such services out-of-pocket, who are disproportionately White, and doulas serving these women tend to be of the same race and socioeconomic class.^{30,31}

Cost, Coverage, and Payment

Both private and public medical insurance generally do not cover doula services and there is a general lack of information available on the size and characteristics of the doula workforce – in part, because they are often not reimbursed through health insurance.³² Many doulas also operate as solo practitioners and lack the capacity and infrastructure to manage health plan contracting and billing requirements, so many doulas require women to pay for their services out-of-pocket without using insurance.³³ However, in those cases when doula services are covered by Medicaid, the level of payment, the ease of enrolling in insurance arrangements, and the administrative burden of getting paid all may affect access and availability of doula services. Insurance coverage paired with adequate reimbursement of doula services is a key strategy to draw interest to doula care as a financially viable profession; in addition – and generally on a much smaller scale – some doulas are paid through community programs or directly by health care systems and hospitals.

As of October 2022, eight state Medicaid programs (Florida, Maryland, Minnesota, New Jersey, Nevada, Oregon, Rhode Island, and Virginia) and the District of Columbia cover doula services, while an additional four states (California, Illinois, Indiana, and Michigan) are in the process of implementing coverage for doula services.³⁴ There is also significant variation in reimbursement rates for doula services at the state level. This year, Rhode Island became the first state to require both Medicaid and private insurance providers in the state to reimburse community-based doula services up to \$1,500 per pregnancy. Rhode Island’s reimbursement rate covers services in the prenatal and postpartum period in addition to labor and delivery. This is higher than many of the other states adopting Medicaid doula reimbursement provisions (see Table 1).³⁵ Variation in Medicaid coverage for pregnant women during the postpartum period also impacts the potential for doula service reimbursement, with some states terminating Medicaid benefits 60 days postpartum, while a growing number of states are extending postpartum benefits for up to one year postpartum as a result of provisions in the American Rescue Plan.^{36,§}

Table 1. Summary of Medicaid Reimbursement Policies in States Covering Doula Services^{37,38}

State	Prenatal Visit Coverage	Postpartum Visit Coverage	Delivery Coverage	Total Reimbursement
District of Columbia ³⁹	Covers 12 total visits, \$97 per prenatal visit and up to \$291 (maximum of 6 hours at \$49 per hour) for postpartum visit, additional \$100 incentive for timely postpartum visit		Flat rate of \$686	\$1,565 under a scenario with 5 prenatal, delivery attendance, and 6 postpartum visits that last one hour each with incentive payment
Florida ⁴⁰	Number of covered visits varies by plan	Number of covered visits varies by plan	Coverage varies by plan	Varies by Medicaid Managed Care plan, usually \$400 - \$1,110
Maryland ⁴¹	Covers 4 visits, up to \$65 per visit	Covers 4 visits, up to \$79 per visit	Flat rate of \$350	Up to \$930 if all potential visits are reimbursed
Minnesota ⁴²	Covers 6 total visits, \$47 per visit		Flat rate of \$488	Up to \$770 if all potential visits are reimbursed
New Jersey ⁴³	Covers 12 total visits, up to \$66 per visit and \$100 for initial visit, additional \$100 incentive for an initial postpartum visit		Flat rate of \$235	Up to \$1,166 across all visits, up to \$1266 with incentive payment
Nevada ⁴⁴	Covers 4 total visits, \$50 per visit		Flat rate of \$150	Up to \$350 across all visits
Oregon ⁴⁵	Covers 4 total visits, \$50 per visit		Flat rate of \$150	Up to \$350 across all visits
Rhode Island ⁴⁶	Covers 3 visits, \$100 per visit	Covers 3 visits, \$100 per visit	Flat rate of \$900	Up to \$1,500 across all visits
Virginia ⁴⁷	Covers 8 total visits, additional \$100 in incentives available		Covered, unspecified amount	Up to \$859 across all visits, up to \$959 with incentive payments

Note: The table includes the eight states and the District of Columbia actively reimbursing doula services in Medicaid, as of October 16, 2022. Rounded to nearest dollar.

Often, doula care is discussed in the context of before and after delivery; however, not all pregnancies end with live birth. The “California Momnibus” bill (SB 65), signed into law in October 2021, includes language to cover doula services in cases of miscarriage, stillbirth, and abortion in California. Some doulas, referred to as loss doulas or bereavement doulas, primarily work with families in these cases. Other doulas, known as “full-spectrum” doulas, provide services across various reproductive health experiences including pregnancy and delivery, but also in cases of miscarriage, abortion, and fertility treatments.⁴⁸

§ 26 states and the District of Columbia have expanded to a year postpartum as of October 27, 2022.

Doula Training

In conjunction with incentivizing more individuals to enter the doula profession by expanding reimbursement for doula services, a complementary pathway is expansion of training programs, which may be especially important in maternity care deserts. Though various local and national organizations offer doula training and certification programs, doula training and certification is not standardized across the U.S. However, when establishing Medicaid requirements for reimbursing doula services, states specify certain training and skills doulas must possess.⁴⁹ Doulas can benefit from training on how maternal health experiences differ by race, ethnicity, and other factors, and combining this training with recruiting doulas in greater numbers from the communities they serve (sometimes referred to as community-based doulas) can contribute to the provision of culturally appropriate and trauma-informed care that can improve outcomes.⁵⁰ Other training can include privacy protections for patients including requirements of the Health Insurance Portability and Accountability Act (HIPAA). Additional research could provide insights into best practices that should be incorporated in doula training.

Patient and Provider Awareness of Doulas

Doulas face challenges due to a lack of awareness of their role by patients and clinical providers. Awareness of doula services among women may also vary by race. One study found Black women were less likely to be aware of doula care services, with 37 percent of Black women indicating they felt knowledgeable about doula care, compared to 87 percent of White women.⁵¹ Friction between doulas and clinical providers, and in some cases, lack of provider respect for doulas can curb the potential for improved patient experiences and clinical outcomes.^{52,53} Education, awareness, and additional research may help women gain a better understanding of the benefits of doula care, aid them in determining whether a doula is appropriate for them, and help facilitate greater acceptance among clinicians.⁵⁴

POLICY EFFORTS TO STRENGTHEN AND EXPAND DOULA CARE

The White House Blueprint for Addressing the Maternal Health Crisis highlighted efforts by HHS and other parts of the federal government to expand access to doula care in federal programs. These efforts and others include:

- **CMS:** CMS released guidance and is providing technical assistance on new and existing coverage options for states, including the ways in which doula services can be reimbursed under Medicaid.^{55,56,57} CMS also released guidance based on findings from the Strong Start for Mothers and Newborns Initiative on best practices for integrating doula care in out-of-hospital birth models.⁵⁸
- **Health Resources and Services Administration (HRSA):** In 2022, HRSA provided over \$5.9 million in funding to support doula care programs and expand the doula care workforce via training and certification opportunities provided by Healthy Start grantees. There are 44 doula projects funded across 25 states and territories.^{59,60} Additionally, in 2019, HRSA implemented the first cohort of the Rural Maternal Obstetrics Management Strategies (RMOMS) program to increase access to maternal and obstetrics care in rural communities. HRSA has since provided funding for two additional RMOMS cohorts, including one that began on September 1, 2022. RMOMS awardees use funding to provide a variety of services including doula care with the aim of improving maternal health outcomes.⁶¹
- **Office of Minority Health (OMH):** OMH is planning an initiative of up to \$10 million to evaluate the effectiveness of innovative or enhanced payment models for community-based maternal support services – including doulas and community health workers – in 2023. Recipients will identify and implement payment models in areas with high rates of adverse maternal health outcomes that are

intended to reduce maternal and infant health disparities for racial and ethnic minority populations. Recipients will be expected to develop public, private and community partnerships to support project implementation, including data collection and evaluation.

- **Department of Defense (DOD):** DOD is evaluating the TRICARE Childbirth and Breastfeeding Support Demonstration, which launched in January 2022 and provides doula and lactation services to TRICARE beneficiaries. The results of the demonstration will be used to inform future TRICARE maternity care benefits.
- **Office of Personnel Management (OPM):** OPM's Annual Call Letter encouraged Federal Employees Health Benefits (FEHB) Program carriers to include coverage and reimbursement for doula services.⁶² FEHB carriers provide insurance coverage to federal employees, the largest employer-sponsored group health insurance program totaling nine million people.⁶³
- **Department of Justice (DOJ):** DOJ's Bureau of Prisons has committed to identifying pathways to offer doulas to pregnant inmates and provide training and certification opportunities for female inmates.

These efforts can be further supported by state-level programs. In addition to the Medicaid policies discussed earlier, 15 states have developed criteria for certification and registry programs.⁶⁴ Legislation passed in Connecticut establishes a Doula Advisory Committee to advise on requirements for doula certification and standards for recognizing doula training programs which meet certification requirements.⁶⁵ States also may opt to implement pilot payment programs for doulas. The Iowa Department of Public Health is currently operating a 3- to 4-year doula pilot program through the state's Title V service delivery system with the goal of assessing the business case for doula care reimbursement.⁶⁶

The aforementioned efforts offer potential avenues to expand and finance the doula care workforce to improve access to their services. Research on the implementation of these objectives could help guide future decision-making regarding policies to support doula services. The National Institute of Nursing Research recently released a funding opportunity, Advancing Integrated Models (AIM) of Care to Improve Maternal Health Outcomes among Women Who Experience Persistent Disparities, which could fund research exploring some of these topics.⁶⁷

CONCLUSION

Doula support during pregnancy, birth, and during the postpartum period has been shown to be an effective best practice that can enhance the birthing experience, reduce complications, and improve outcomes for women and infants. However, the use of doula services in the U.S. has been relatively limited to date, which is likely related to low public awareness of doula care and limited insurance coverage of doula services.⁶⁸ Populations that experience worse maternal health outcomes, including Black and AI/AN women, may particularly benefit from doula services but have historically been less likely to use doulas or be aware of their services. Research can provide additional evidence on the relationship between doula services and health outcomes and spending, in addition to best practices in doula care that should be incorporated into doula training programs.

The federal government is supporting training opportunities to expand the doula workforce and encouraging coverage of doula services in a number of health programs. Several states have either developed pilot programs to reimburse doula care or are paying for doula care through their state Medicaid programs. Expansion of similar efforts in other areas of the country, with a particular focus on populations experiencing

worse maternal health outcomes, has the potential to improve clinical outcomes and care experiences for many women. If implemented with a focus on equitable access to doula services and coupled with other initiatives to improve maternal health, doula care can help address longstanding racial disparities in maternal health outcomes.

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